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This listing of claims will replace all prior versions, and listings, of claims in the application.

PATENT

Listing of Claims:

1. (currently amended)

A compound of formula

Ds

$$Q \xrightarrow{R^1} a^{1/2} a^{2/3} \qquad (I)$$

a prodrug, N-oxide, addition salt, quaternary amine, metal complex or stereochemically isomeric form thereof wherein

 $-a^1=a^2-a^3=a^4$ - represents a bivalent radical of formula

$$-CH=CH-CH=CH-$$
 (a-1);

wherein each hydrogen atom in the radicals radical (a-1), (a-2), (a-3), (a-4) and (a-5) may optionally be replaced by halo, C_{1-6} alkyl, nitro, amino, hydroxy, C_{1-6} alkyloxy, polyhalo C_{1-6} alkyl, carboxyl, amino C_{1-6} alkyl, mono- or di(C_{1-6} alkyl)amino C_{1-6} alkyl, C_{1-6} alkyloxycarbonyl, hydroxy C_{1-6} alkyl, or a radical of formula

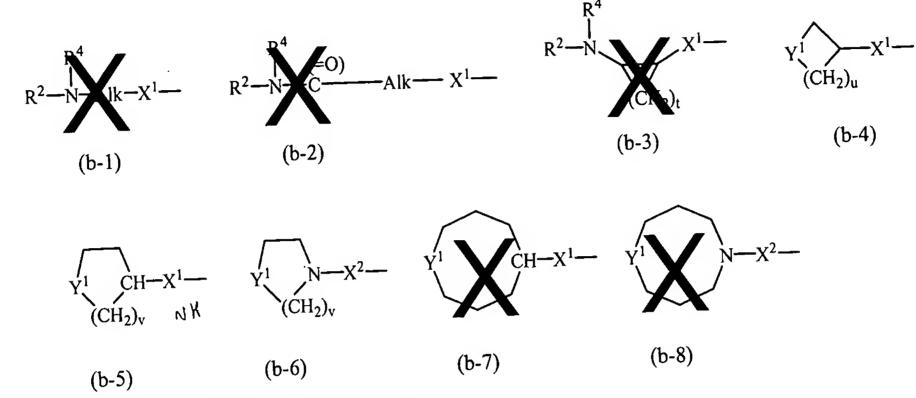
wherein =**Z Z** is =**O**, =**CH**-**C**(=**O**)-**NR**^{5a}**R**^{5b}, =**CH**₂, =**CH**-**C**₁₋₆**alkyl**, =**N**-**O**+**C**₁₋₆**alkyl O**, **CH**-**C**(=**O**)-**NR**^{5a}**R**^{5b}, **CH**₂, **CH**-**C**₁₋₆**alkyl**, **N**-**O**+**D** or **N**-**O**-**C**₁₋₆**alkyl**;

Q is a radical of formula

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wherein Alk is C1-6alkanediyl;

 Y^1 is a bivalent radical of formula $-NR^2$ - or $-CH(NR^2R^4)$ -;

 X^{1} is NR^{4} , S, S(=O), S(=O)₂, O, CH₂, C(=O), C(=CH₂), CH(OH), CH(CH₃), CH(OCH₃), CH(SCH₃), CH(NR^{5a}R^{5b}), CH₂-NR⁴ or NR⁴-CH₂;

X² is a direct bond, CH₂, C(=O), NR⁴, C₁₋₄alkyl-NR⁴, NR⁴-C₁₋₄alkyl;

t is 2, 3, 4 or 5;

u is 1, 2, 3, 4 or 5 2 or 3;

v is 2 or 3; and

whereby each hydrogen atom in Alk and the carbocycles and the heterocycles defined in radicals (b-3), (b-4), (b-5), and (b-6), (b-7) and (b-8) may optionally be replaced by R^3 ; with the proviso that when R^3 is hydroxy or C_{1-6} alkyloxy, then R^3 can not replace a hydrogen atom in the α position relative to a nitrogen atom;

G is C_{1-10} alkanediyl substituted with one or more hydroxy, C_{1-6} alkyloxy, aryl C_{1-6} alkyloxy, C_{1-6} alkylthio, aryl C_{1-6} alkylthio, HO(-CH₂-CH₂-O)_n-, C_{1-6} alkyloxy (-CH₂-CH₂-O)_n-;

R¹ is a monocyclic heterocycle or aryl; said heterocycle being selected from piperidinyl, piperazinyl, pyridyl, pyrazinyl, pyridazinyl, pyrimidinyl, furanyl, tetrahydrofuranyl, thienyl, pyrrolyl, thiazolyl, oxazolyl, imidazolyl, isothiazolyl, pyrazolyl, isoxazolyl, oxadiazolyl; and each heterocycle may optionally be substituted with 1 or where possible more–substituents selected from halo, hydroxy, amino, cyano, carboxy, C₁₋₆alkyl, C₁₋₆alkyloxy, C₁₋₆alkylthio, C₁₋₆alkyloxyC₁₋₆alkyl, aryl, Page 4 of 21

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arylC₁₋₆alkyl, arylC₁₋₆alkyloxy, hydroxyC₁₋₆alkyl, mono-or di(C₁₋₆alkyl)amino, mono-or di(C₁₋₆alkyl)aminoC₁₋₆alkyl, polyhaloC₁₋₆alkyl, C₁₋₆alkylcarbonylamino, C₁₋₆alkyl-SO₂-NR^{5c}-, aryl-SO₂-NR^{5c}-, C₁₋₆alkyloxycarbonyl, -C(=O)-NR^{5c}R^{5d}, HO(-CH₂-CH₂-O)_n-, halo(-CH₂-CH₂-O)_n-, C₁₋₆alkyloxy(-CH₂-CH₂-O)_n-, arylC₁₋₆alkyloxy(-CH₂-CH₂-O)_n-, arylC₁₋₆alk

each n independently is 1, 2, 3 or 4;

 R^2 is hydrogen, formyl, C_{1-6} alkylcarbonyl, Hetcarbonyl, pyrrolidinyl, piperidinyl, homopiperidinyl, C_{3-7} cycloalkyl substituted with $N(R^6)_2$, or C_{1-10} alkyl substituted with $N(R^6)_2$ and optionally with a second, third or fourth substituent selected from amino, hydroxy, C_{3-7} cycloalkyl, C_{2-5} alkanediyl, piperidinyl, mono-or $di(C_{1-6}$ alkyl)amino, C_{1-6} alkyloxycarbonylamino, aryl and aryloxy;

 R^3 is hydrogen, hydroxy, C_{1-6} alkyl, C_{1-6} alkyloxy, aryl C_{1-6} alkyloxy;

R⁴ is hydrogen, C₁₋₆alkyl or arylC₁₋₆alkyl;

 R^{5a} , R^{5b} , R^{5c} and R^{5d} each independently are hydrogen or C_{1-6} alkyl; or

 R^{5a} and R^{5b} , or R^{5c} and R^{5d} taken together form a bivalent radical of formula -(CH₂)_s- wherein s is 4 or 5;

 R^6 is hydrogen, $C_{1\text{-}4}$ alkyl, formyl, hydroxy $C_{1\text{-}6}$ alkyl, $C_{1\text{-}6}$ alkyloxycarbonyl; $C_{1\text{-}6}$ alkyloxycarbonyl;

aryl is phenyl or phenyl substituted with 1 or more-substituents selected from halo, hydroxy, C_{1-6} alkyl, hydroxy C_{1-6} alkyl, polyhalo C_{1-6} alkyl, and C_{1-6} alkyloxy; and Het is pyridyl, pyrimidinyl, pyrazinyl, or pyridazinyl.

√ 2. (cancelled)

3. (previously presented) A compound according to claim 1, wherein R^1 is phenyl optionally substituted with halo, C_{1-6} alkyl or C_{1-4} alkyloxy; or pyridyl optionally substituted with 1 or more substituents selected from $arylC_{1-6}$ alkyloxy,

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 $C_{1\text{-}6}$ alkyloxy $C_{1\text{-}6}$ alkyl, aryl, mono-or di $(C_{1\text{-}6}$ alkyl)amino, C(=O)-NR 5c R 5d , halo or $C_{1\text{-}6}$ alkyl.

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- 4. (previously presented) A compound according to claim 1, wherein G is C_{1-4} alkanediyl substituted with hydroxy, C_{1-6} alkyloxy, $HO(-CH_2-CH_2-O)_n$ -, C_{1-6} alkyloxy(- $CH_2-CH_2-O)_n$ or aryl C_{1-6} alkyloxy(- $CH_2-CH_2-O)_n$ -.
- 5. (previously presented) A compound according to claim 1, wherein Q is a radical of formula (b-5) wherein v is 2 and Y¹ is -NR²-.
- 6. (previously presented) A compound according to claim 1, wherein X^1 is NH or CH_2 .
- 7. (previously presented) A compound according to claim 1, wherein R^2 is hydrogen or C_{1-10} alkyl substituted with NHR⁶ wherein R^6 is hydrogen or C_{1-6} alkyloxycarbonyl.
- 8. (currently amended) A compound according to claim 1, wherein the compound is [(A),(S)]-N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(6-bromo-2-pyridinyl)ethoxymethyl]-1H-benzimidazol-2-amine;
 - [(A),(S)]-N-[1-(2-aminopropyl)-4-piperidinyl]-1-[ethoxy(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine (compound 75);
 - (\pm) -N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(2-methoxyethoxy)(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine;
 - N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-6-chloro-1-[(2-methoxyethoxy)(6-methyl-2-pyridinyl)methyl]-4-methyl-1H-benzimidazol-2-amine trihydrochloride trihydrate;
 - [(A),(R)]-N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[ethoxy(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine monohydrate;
 - (±)-N-[1-(2-aminopropyl)-4-piperidinyl]-1-[ethoxy(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine;

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[(A)(S)]-N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[ethoxy(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine monohydrate;

- (±)-N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[ethoxy(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine;
- [(A),(R)]-N-[1-(2-aminopropyl)-4-piperidinyl]-1-[ethoxy(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine monohydrate;
- (±)-N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(6-bromo-2-pyridinyl)ethoxymethyl]-2-benzimidazol-2-amine;
- (±)-N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(2-ethoxyethoxy)(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine;
- [(B),(S)]N-[1-(2-aminopropyl)-4-piperidinyl]-1-[ethoxy(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine monohydrate;
- $(\pm)-N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-3-[(2-methoxyethoxy)(6-methyl-2-pyridinyl)methyl]-7-methyl-3H-imidazo[4,5-b]pyridin-2-amine;$
- $\label{eq:localization} $$(\pm)-N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(2-ethoxyethoxy)(6-phenyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine;$
- (±)-N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(2-methoxyethoxy)(6-metyl-2-pyridinyl)methyl]-1H-benzimidazol-2-amine;
- (±)-N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(6-bromo-2-pyridinyl)ethoxymethyl]-4-methyl-1H-benzimidazol-2-amine monohydrate;
- [(A),(R)]-N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(6-bromo-2-pyridinyl)ethoxymethyl]-1H-benzimidazol-2-amine;
- (±)-N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(6-bromo-2-pyridinyl)ethoxymethyl]-1H-benzimidazol-2-amine;
- a prodrug, N-oxide, addition salt, quaternary amine, metal complex or stereochemically isomeric form thereof.

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9. (currently amended) A method of treating a <u>respiratory syncytial</u> viral infection, comprising the step of administering a therapeutically effective amount of a compound as claimed in any one of claims 1 to 8.

10. (previously presented) A pharmaceutical composition, comprising a pharmaceutically acceptable carrier, and as active ingredient a therapeutically effective amount of a compound as claimed in any one of claims 1 to 8.

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11. (previously presented) A process of preparing a composition as claimed in claim 10, comprising the step of intimately mixing said carrier with said compound.

➤ Claims 12 to 14 (cancelled)

15. (currently amended) A process of preparing a compound as claimed in claim 1, comprising at least one step selected from the group consisting of:

a) reacting an intermediate of formula (II-a) or (II-b) with an intermediate of formula (III)

$$Q \xrightarrow{N} a^{1} a^{2}$$

$$(II-a)$$

$$Q \xrightarrow{N} a^{1} a^{2}$$

$$Q \xrightarrow{N} a^{1} a^{1}$$

$$Q \xrightarrow{N} a^{1} a^{2}$$

with R^1 , G, Q and $-a^1=a^2-a^3=a^4$ - defined as in claim 1, and W_1 being a leaving group, in the presence of a base and in a reaction-inert solvent;

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b) deprotecting an intermediate of formula (IV)

$$P = Q_1 = \begin{bmatrix} R^1 \\ N \\ A^4 \end{bmatrix} = \begin{bmatrix} A^1 \\ A^2 \\ A^3 \end{bmatrix}$$

$$H = Q_1 = \begin{bmatrix} A^1 \\ N \\ A^4 \end{bmatrix} = \begin{bmatrix} A^1 \\ A^2 \\ A^3 \end{bmatrix}$$

$$(I-a)$$

with R^1 , G, and $-a^1=a^2-a^3=a^4$ - defined as in claim 1, H-Q₁ being defined as Q according to claim 1 provided that R^2 or at least one R^6 substituent is hydrogen, and P being a protective group;

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c) deprotecting and reducing an intermediate of formula (IV-a)

$$P \longrightarrow Q_{1a}(CH=CH) \longrightarrow A^{1} A^{2} A^{2}$$

$$(IV-a)$$

$$H \longrightarrow Q_{1} \longrightarrow A^{1} A^{2} A^{2}$$

$$(I-a)$$

with R^1 , G, and $-a^1=a^2-a^3=a^4$ - defined as in claim 1, H-Q₁ being defined as Q according to claim 1 provided that R^2 or at least one R^6 substituent is hydrogen, $Q_{1a}(CH=CH)$ being defined as Q_1 provided that Q_1 comprises an unsaturated bond, and P being a protective group;

d) deprotecting an intermediate of formula (V)

with R^1 , G, and $-a^1=a^2-a^3=a^4$ defined as in claim 1, and H_2N - Q_2 being defined as Q according to claim 1 provided that both R^6 substituents are hydrogen or R^2 and R^4 are both hydrogen;

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e) deprotecting an intermediate of formula (VI)

 $P = Q_{2} = \begin{bmatrix} R^{1} & & & & \\ & & & \\ N & & & \\ N & & & \\ & & & \\ N & & & \\$

with R^1 , G, and $-a^1=a^2-a^3=a^4$ - defined as in claim 1, and H_2N-Q_2 being defined as Q according to claim 1 provided that both R^6 substituents are hydrogen or R^2 and R^4 are both hydrogen, and P being a protective group;

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f) deprotecting an intermediate of formula (VII) or (VIII)

$$P = Q_{1'}(OP) \longrightarrow N \longrightarrow A^{1 \longrightarrow 2} \longrightarrow H = Q_{1'}(OH) \longrightarrow N \longrightarrow A^{1 \longrightarrow 2} \longrightarrow A^{2} \longrightarrow A^$$

with R¹, G, and -a¹=a²-a³=a⁴- defined as in claim 1, H-Q₁·(OH) being defined as Q according to claim 1 provided that R² or at least one R⁶ substituent is hydrogen and provided that Q comprises a hydroxy moiety, H₂N-Q₂·(OH) being defined as Q according to claim 1 provided that both R⁶ substituents are hydrogen or R² and R⁴ are both hydrogen and provided that Q comprises a hydroxy moiety, and P being a protective group;

g) amination of an intermediate of formula (IX)

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with R^1 , G, and $-a^1=a^2-a^3=a^4$ - defined as in claim 1, and H_2N-Q_3H being defined as Q according to claim 1 provided that both R^6 substituents are hydrogen or R^2 and R^4 are both hydrogen, and the carbon adjacent to the nitrogen carrying the R^6 , or R^2 and R^4 substituents contains at least one hydrogen, in the presence of an amination reagent;

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ζ

h) reducing an intermediate of formula (X)

NC-Q₄

NC-Q₄

NC-Q₄

(X)

$$A_{2}$$
 A_{3}
 A_{4}
 A_{3}
 A_{4}
 A_{3}
 A_{4}
 A_{3}

(I-a-1-3)

with R^1 , G, and $-a^1=a^2-a^3=a^4$ - defined as in claim 1, and $H_2N-CH_2-Q_4$ being defined as Q according to claim 1 provided that Q comprises a $-CH_2-NH_2$ moiety, in the presence of a reducing agent;

i) reducing an intermediate of formula (X-a)

(X-a) (I-a-1-3-1) with G, and $-a^1=a^2-a^3=a^4$ - defined as in claim 1, H₂N-CH₂-Q₄ being defined as Q according to claim 1 provided that Q comprises a -CH₂-NH₂ moiety, and R¹

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being defined as R¹ according to claim 1 provided that it comprises at least one substituent, in the presence of a reducing agent and solvent;

j) amination of an intermediate of formula (XI)

(XI) with R¹, G, and -a¹=a²-a³=a⁴- defined as in claim 1, and H₂N-CH₂-CHOH-CH₂-Q₄, being defined as Q according to claim 1 provided that Q comprises a CH₂-CHOH-CH₂-NH₂ moiety, in the presence of an amination reagent;

k) reacting an intermediate of formula (XII) with formic acid, formamide and ammonia

$$C_{1^{-4}alkyl} - C_{-CH_{2}} - Q_{1} - Q_{1$$

with R^1 , G, and $-a^1=a^2-a^3=a^4$ - defined as in claim 1, and H-C(=O)- Q_1 being defined as Q according to claim 1 provided that R^2 or at least one R^6 substituent is formyl;

l) amination of an intermediate of formula (XIII) by reaction with an intermediate of formula (XIV)

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 $O=Q_{5} \xrightarrow{N \xrightarrow{a^{1}} a^{2}} + R^{2a} \xrightarrow{NH_{2}} \xrightarrow{amination} R^{2a} \xrightarrow{NH-HQ_{5}} (XIV)$ (XIII) (XIV) (XIV)

with R¹, G, and -a¹=a²-a³=a⁴- defined as in claim 1, and R^{2a}-NH-HQ₅ being defined as Q according to claim 1 provided that R² is other than hydrogen and is represented by R^{2a}, R⁴ is hydrogen, and the carbon atom adjacent to the nitrogen atom carrying the R² and R⁴ substituents, carries also at least one hydrogen atom, in the presence of a reducing agent;

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m) reducing an intermediate of formula (XV)

$$(R^{6})_{2}N-(C_{1}-9alkyl)-NH-HQ_{5}$$

$$(R^{6})_{3}N-(C_{1}-9alkyl)-NH-HQ_{5}$$

$$(R^{6})_{4}N-(C_{1}-9alkyl)-NH-HQ_{5}$$

with R^1 , G, and $-a^1=a^2-a^3=a^4$ defined as in claim 1, and $(R^6)_2N$ -[($C_{1-9}alkyl$)CH₂OH]-NH-HQ₅ being defined as Q according to claim 1 provided that R^2 is other than hydrogen and is represented by $C_{1-10}alkyl$ substituted with $N(R_6)_2$ and with hydroxy, and the carbon atom carrying the hydroxy, carries also two hydrogen atoms, and provided that R^4 is hydrogen, and the carbon atom adjacent to the nitrogen atom carrying the R^2 and R^4 substituents, carries also at least one hydrogen atom, with a reducing agent;

n) deprotecting an intermediate of formula (XVI), (XVI-a) or (XVI-b)

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$$P = Q_{1} \longrightarrow \begin{pmatrix} A & O & -P \end{pmatrix}_{w}$$

$$Q_{1} \longrightarrow \begin{pmatrix} A & A & A & A \\ A & A & A \\ A & A & A \end{pmatrix}$$

$$(XVI) \qquad (I-d)$$

$$P_{1} \longrightarrow \begin{pmatrix} A & A & A \\ A & A & A \\ A & A & A \end{pmatrix}$$

$$(XVI-a) \qquad (I-d-1)$$

$$Q_{1} \longrightarrow \begin{pmatrix} A & A & A \\ A & A & A \\ A & A & A \end{pmatrix}$$

$$(XVI-a) \qquad (I-d-1)$$

$$Q_{1} \longrightarrow \begin{pmatrix} A & A & A \\ A & A & A \\ A & A & A \end{pmatrix}$$

$$(XVI-b) \qquad (I-d-2)$$

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with G, and $-a^1=a^2-a^3=a^4$ defined as in claim 1, and H-Q₁ being defined as Q according to claim 1 provided that R² or at least one R⁶ substituent is hydrogen, and R^{1a}-(A-O-H)_w, R^{1a'}-(A-O-H)₂ and R^{1a''}-(A-O-H)₃ being defined as R¹ according to claim 1 provided that R¹ is substituted with hydroxy, hydroxyC₁₋₆alkyl, or HO(-CH₂-CH₂-O)_n-, with w being an integer from 1 to 4 and P or P₁ being a protecting group, with **a suitable an** acid;

o) amination of an intermediate of formula (XVII)

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$$C_{1^{-4}alkyl} \longrightarrow C_{1^{-4}alkyl} \longrightarrow C_{1^{-4}a$$

p) amination of an intermediate of formula (XIX)

$$H = C + C_{1-3} \text{alkyl} + NR^4 + Q_6 N + Q_6 N + CH_2 + C_{1-3} \text{alkyl} + NR^4 + Q_6 N + Q$$

with R^1 , G, and $-a^1=a^2-a^3=a^4$ defined as in claim 1, and Q_6N - CH_2 - C_{1-3} alkyl- NR^4 being defined as Q according to claim 1 provided that in the definition of Q, X^2 is C_{2-4} alkyl- NR^4 , in the presence of an amination agent;

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q) deprotecting an intermediate of formula (XXI)

with R^1 , Q, and $-a^1=a^2-a^3=a^4$ defined as in claim 1, and HO-G₁ being defined as G according to claim 1 provided that G is substituted with hydroxy or HO-(CH₂CH₂O-)_n; and

r) reducing an intermediate of formula (XXII)

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$$Q \xrightarrow{N} a^{1} a^{2}$$

$$Q \xrightarrow{N} a^{4} a^{3}$$

$$Q \xrightarrow{N} A^{4} a^{3}$$

$$Q \xrightarrow{N} A^{4} a^{3}$$

$$Q \xrightarrow{N} A^{4} A^{4} a^{3}$$

$$(I-q-1)$$

with R¹, Q, and -a¹=a²-a³=a⁴- defined as in claim 1, and H-G₂-OH being defined as G according to claim 1 provided that G is substituted with hydroxy and the carbon atom carrying the hydroxy substituent carries also at least one hydrogen, in the presence of a reducing agent.

Claims 16 to 17 (cancelled)

- 18. (previously presented) The process of claim 15, further comprising the step of converting compound of formula (I'), stereochemically isomeric forms, metal complexes, quaternary amines or N-oxide forms thereof, into a therapeutically active non-toxic acid addition salt by treatment with an acid.
- 19. (previously presented) The process of claim 15, further comprising the step of converting compound of formula (I'), stereochemically isomeric forms, metal complexes, quaternary amines or N-oxide forms thereof, into a therapeutically active non-toxic base addition salt by treatment with alkali.
- 20. (currently amended) The process of claim 15, further comprising the step of converting the acid addition salt form of compound of formula (I')—, or stereochemically isomeric forms, metal-complexes, quaternary amines or N-oxide forms thereof, into the free base by treatment with alkali.

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21. (currently amended) The process of claim 15, further comprising the step of converting the base addition salt form of compound of formula (I')—, or stereochemically isomeric forms, metal complexes, quaternary amines or N-oxide forms thereof, into the free acid by treatment with acid.

22. (currently amended) The process of claim 15, further comprising the step of converting said compound of formula (I'), or stereochemically isomeric form, metal complex, quaternary amine or N-oxide form thereof, into a different form of compound of formula (I'), stereochemically isomeric form, metal complex, quaternary amine or N-oxide form thereof.